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(54) ELECTRIC DISCHARGE MACHINE

(57) Abstract:

PURPOSE: To prevent a temperature rise from occurring as well as to perform a job for stable electric discharge machining, by forming an EDM electrode with graphite, impregnating such a metal that is low in evaporative temperature and large in evaporative latent heat as a material.

CONSTITUTION: A tool electrode 1 is one that is made up of impregnating a metal, for example, as zinc, being low in evaporative temperature and large in evaporative latent heat. Temperature abnormally goes up at a discharging point 2 of the tool electrode 1 due to Joule's heat to be generated on the basis of a work-

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ing current flowing in the tool electrode 1, but owing to evaporative latent heat of the metal impregnated in the tool electrode 1, the temperature is prevented from rising above the evaporative temperature of the metal impregnated.

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